ABSTRACT

In a preferred embodiment, the invention comprises an apparatus for generating electrical power which utilizes an electrically superconductive coil immersed in a cryogenic fluid for generating a magnetic field within a region surrounding the superconductive coil when an electrical current circulates in the superconductive coil. The apparatus further includes a prime mover and a conduit which conducts a flow of gas resulting from evaporation of a cryogenic fluid to the prime mover to induce rotational motion in the prime mover. An electrical conductor is rotatably mounted within the region surrounding the superconductive coil in which the magnetic field is generated. The electrical conductor is operatively connected to the prime mover so that rotational movement of the prime mover is transferred to the electrical conductor to generate an electrical output current.